

STN Structure Search (Registry/Cap/w)

10/561,414

09/18/2007

chain bonds :

2-7 3-6 4-11 7-8 8-9 8-10 8-13 11-12 13-14

ring bonds :

1-2 1-5 2-3 3-4 4-5

exact/norm bonds :

2-7 3-4 3-6 4-11 7-8 8-9 8-10 8-13 11-12 13-14

exact bonds :

1-2 1-5 2-3 4-5

isolated ring systems :

containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS

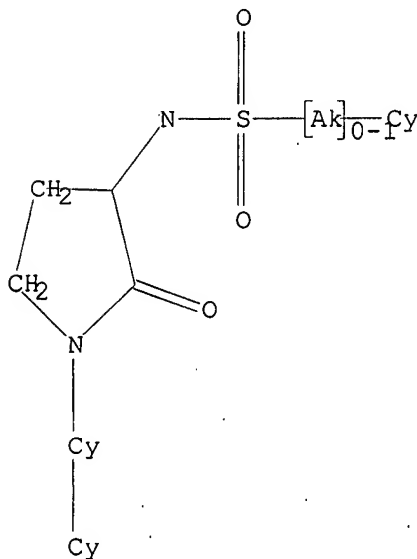
10:CLASS 11:Atom 12:Atom 13:CLASS 14:Atom

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 19:09:25 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 153 TO ITERATE

100.0% PROCESSED 153 ITERATIONS

8 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 2318 TO 3802

Searched by Jason M. Nolan, Ph.D.

Page 3

=> s l1 full

FULL SEARCH INITIATED 19:10:08 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED 3156 TO ITERATE

100.0% PROCESSED 3156 ITERATIONS
SEARCH TIME: 00.00.01

125 ANSWERS

L3 125 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

172.55

172.76

FILE 'CAPLUS' ENTERED AT 19:10:12 ON 18 SEP 2007

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FILE COVERS 1907 - 18 Sep 2007 VOL 147 ISS 13

FILE LAST UPDATED: 17 Sep 2007 (20070917/ED)

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=> s l3

L4 4 L3

=> d ibib abs hitstr 1-4

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2005:394818 CAPLUS
 DOCUMENT NUMBER: 142:447111
 TITLE: Preparation of sulfonylaminovalerolactams and derivatives thereof as factor Xa inhibitors
 INVENTOR(S): Han, Wei; Hu, Zilun; Gungor, Timur
 PATENT ASSIGNEE(S): Bristol Myers Squibb Company, USA
 SOURCE: U.S. Pat. Appl. Publ., 120 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005096309	A1	20050505	US 2004-952396	20040928
US 7169795	B2	20070130		
WO 2005048922	A2	20050602	WO 2004-US31774	20040929
WO 2005048922	A3	20070104		

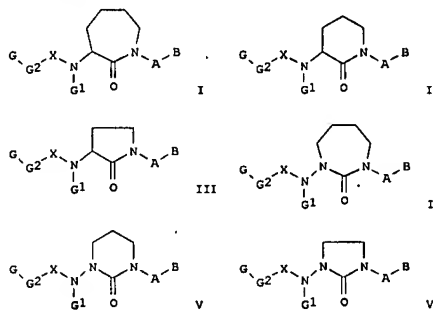
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EP 1667635 A2 20060614 EP 2004-817779 20040929
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR

US 2007099922 A1 20070503 US 2006-611195 20061215
 PRIORITY APPLN. INFO.: US 2003-507177P P 20030930
 US 2004-952396 A 20040928
 WO 2004-US31774 W 20040929

OTHER SOURCE(S): MARPAT 142:447111
 GI

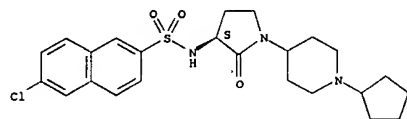
L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



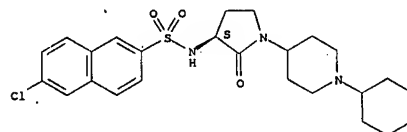
AB The present application describes sulfonylaminovalerolactams and deriva. thereof of formula I-VI or pharmaceutically acceptable salt forms thereof [wherein the central lactam ring is optionally substituted; ring G = (un)substituted mono- or bicyclic carbocycle or heterocycle; X = SO2, NH2, (CH2)2-5-NH2, (CH2)2-5-OH, C1-6 alkyl, etc.; G2 = (un)substituted CH2CH2 or CH:CH; A = each (un)substituted C3-10 cycloalkyl, C3-10 cycloalkenyl, or 4- to 12-membered heterocyclyl; B = cyano, (un)substituted C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, C1-6 alkoxy, etc.]. These compds. are useful as inhibitors of trypsin-like serine proteases, specifically factor Xa, for treating thromboembolic disorders which is selected from arterial or venous cardiovascular thromboembolic disorders. Thus, reductive amination of cyclopentanone by (S)-6-chloronaphthalene-2-sulfonic acid N-(2-oxo-[1,4']bipiperidinyl-3-yl)amide and sodium cyanoborohydride in THF at room temperature for 5 h gave (S)-6-chloronaphthalene-2-sulfonic acid N-(1'-cyclopentyl-2-oxo-[1,4']bipiperidinyl-3-yl)amide. The compds. I inhibited factor Xa with Ki of <10 μM. Some of the compds. I also inhibited human thrombin with Ki of <10 μM.

IT 851119-38-5P, (S)-6-Chloronaphthalene-2-sulfonic Acid N-[1-(1-cyclopentylpiperidin-4-yl)-2-oxopyrrolidin-3-yl]amide
 851119-56-7P, (S)-6-Chloronaphthalene-2-sulfonic Acid N-[1-(1-cyclohexylpiperidin-4-yl)-2-oxopyrrolidin-3-yl]amide
 851119-94-3P, (S)-6-Chloronaphthalene-2-sulfonic Acid N-[1-(1-cyclopentylazetidin-3-yl)-2-oxopyrrolidin-3-yl]amide
 RL: PNC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

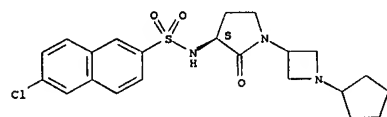
L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 (Uses)
 [prepn. of sulfonylaminovalerolactams and deriva. thereof as factor Xa inhibitors for treating thromboembolic disorders]
 RN 851119-38-5 CAPLUS
 CN 2-Naphthalenesulfonamide,
 6-chloro-N-[(3S)-1-(1-cyclopentyl-4-piperidinyl)-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.



RN 851119-56-7 CAPLUS
 CN 2-Naphthalenesulfonamide,
 6-chloro-N-[(3S)-1-(1-cyclohexyl-4-piperidinyl)-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.



RN 851119-94-3 CAPLUS
 CN 2-Naphthalenesulfonamide,
 6-chloro-N-[(3S)-1-(1-cyclopentyl-3-azetidinyl)-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2004:1127376 CAPLUS

DOCUMENT NUMBER:

142:74569

TITLE:

Preparation of 3-sulfonylamino-pyrrolidine-2-one

derivatives as factor Xa inhibitors

INVENTOR(S):

Borthwick, Alan David; Kelly, Henry Anderson; Watson,

Nigel Stephen; Young, Robert John

PATENT ASSIGNEE(S):

Glaxo Group Limited, UK

SOURCE:

PCT Int. Appl., 43 pp.

CODEM: 01XXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

1

PATENT INFORMATION:

Instant App.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004111045	A1	20041223	WO 2004-EP6603	20040617
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1641786	A1	20060405	EP 2004-740049	20040617
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LT, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, HR				
JP 2006527731	T	20061207	JP 2006-515993	20040617
US 2006167079	A1	20060727	US 2005-561414	20051219
GB 2003-14373				A 20030619
WO 2004-EP6603				W 20040617

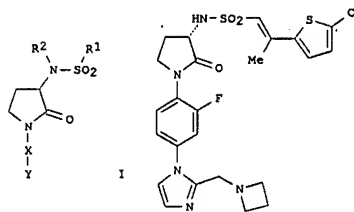
OTHER SOURCE(S):

MARPAT 142:74569

GI

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)



AB Title compds. represented by the formula I (wherein R1 = (un)substituted naphthyl, benzofuryl, phenyl(alkyl), etc.; R2 = H, alkyl, alkylamido, carbonylalkyl, etc.; X = (un)substituted Ph or aromatic heterocyclic group; Y = (un)substituted Ph or aromatic heterocyclic group; and pharmaceutically acceptable derivs. thereof) were prepared as inhibitors of factor Xa.

For example, II was given in a multi-step synthesis starting from the reaction of 2-fluoro-4-iodoaniline with tert-Bu ((3S)-tetrahydro-2-oxo-3-furanyl)carbamate. The prepared compds. showed activity in vitro assay for inhibition of factor Xa with Ki values of less than 100 nM. Thus, I and their pharmaceutical compns. are useful medicine, particularly in the amelioration of a clin. condition for which a factor Xa inhibitor is indicated (no data).

IT 811794-78-2P 811794-79-3P 811794-80-6P
811794-81-7P 811794-82-8P 811794-83-9P
811794-84-0P 811794-85-1P 811794-86-2P
811794-87-3P 811794-88-4P 811794-89-5P
811794-90-8P 811794-91-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 1-(imidazolyl)phenyl-3-(sulfonylamino)pyrrolidin-2-one derivs. as factor Xa inhibitors)

RN 811794-78-2 CAPLUS

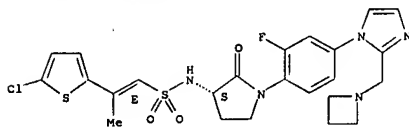
CN 1-Propene-1-sulfonamide,

N-[(3S)-1-[4-[2-(1-azetidinylmethyl)-1H-imidazol-1-yl]-2-fluorophenyl]-2-oxo-3-pyrrolidinyl]-2-(5-chloro-2-thienyl)-, (1E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)



RN 811794-79-3 CAPLUS

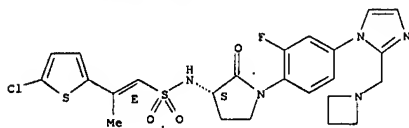
CN Formic acid, compd. with (1E)-N-[(3S)-1-[4-[2-(1-azetidinylmethyl)-1H-imidazol-1-yl]-2-fluorophenyl]-2-oxo-3-pyrrolidinyl]-2-(5-chloro-2-thienyl)-1-propene-1-sulfonamide (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 811794-78-2

CMF C24 H25 Cl F N5 O3 S2

Absolute stereochemistry.
Double bond geometry as shown.



CM 2

CRN 64-18-6

CMF C H2 O2

O=CH-OH

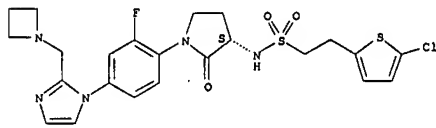
RN 811794-80-6 CAPLUS

CN 2-Thiopheneethanesulfonamide, N-[(3S)-1-[4-[2-(1-azetidinylmethyl)-1H-imidazol-1-yl]-2-fluorophenyl]-2-oxo-3-pyrrolidinyl]-5-chloro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)



RN 811794-81-7 CAPLUS

CN Formic acid, compd. with

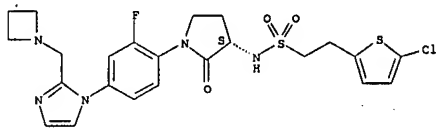
N-[(3S)-1-[4-[2-(1-azetidinylmethyl)-1H-imidazol-1-yl]-2-fluorophenyl]-2-oxo-3-pyrrolidinyl]-5-chloro-2-thiopheneethanesulfonamide (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 811794-80-6

CMF C23 H25 Cl F N5 O3 S2

Absolute stereochemistry.



CM 2

CRN 64-18-6

CMF C H2 O2

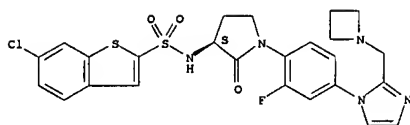
O=CH-OH

RN 811794-82-8 CAPLUS

CN Benzo(b)thiophene-2-sulfonamide, N-[(3S)-1-[4-[2-(1-azetidinylmethyl)-1H-imidazol-1-yl]-2-fluorophenyl]-2-oxo-3-pyrrolidinyl]-6-chloro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

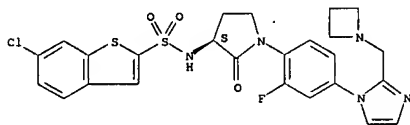


RN 811794-83-9 CAPLUS
 CN Formic acid, compd. with
 N-[(3S)-1-[4-[[2-(1-azetidinylmethyl)-1H-imidazol-1-yl]-2-fluorophenyl]-2-oxo-3-pyrrolidinyl]-6-chlorobenzo[b]thiophene-2-sulfonamide (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 811794-82-8
 CMF C25 H23 Cl F N5 O3 S2

Absolute stereochemistry.



CM 2

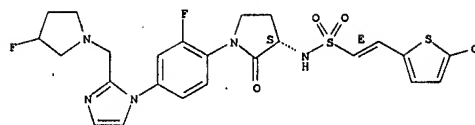
CRN 64-18-6
 CMF C H2 O2

O=CH-OH

RN 811794-84-0 CAPLUS
 CN Ethenesulfonamide, 2-(5-chloro-2-thienyl)-N-[(3S)-1-[2-fluoro-4-[[2-[(3-fluoro-1-pyrrolidinyl)methyl]-1H-imidazol-1-yl]phenyl]-2-oxo-3-pyrrolidinyl]-, (1E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

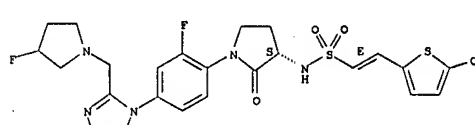


RN 811794-85-1 CAPLUS
 CN Formic acid, compd. with
 (1E)-2-(5-chloro-2-thienyl)-N-[(3S)-1-[2-fluoro-4-[[2-[(3-fluoro-1-pyrrolidinyl)methyl]-1H-imidazol-1-yl]phenyl]-2-oxo-3-pyrrolidinyl]ethenesulfonamide (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 811794-84-0
 CMF C24 H24 Cl F2 N5 O3 S2

Absolute stereochemistry.
 Double bond geometry as shown.



CM 2

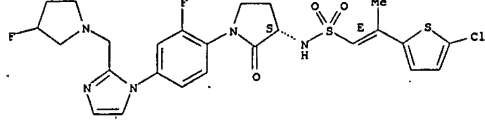
CRN 64-18-6
 CMF C H2 O2

O=CH-OH

RN 811794-86-2 CAPLUS
 CN 1-Propene-1-sulfonamide, 2-(5-chloro-2-thienyl)-N-[(3S)-1-[2-fluoro-4-[[2-[(3-fluoro-1-pyrrolidinyl)methyl]-1H-imidazol-1-yl]phenyl]-2-oxo-3-pyrrolidinyl]-, (1E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

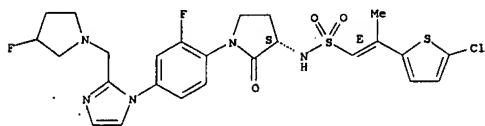


RN 811794-87-3 CAPLUS
 CN Formic acid, compd. with
 (1E)-2-(5-chloro-2-thienyl)-N-[(3S)-1-[2-fluoro-4-[[2-[(3-fluoro-1-pyrrolidinyl)methyl]-1H-imidazol-1-yl]phenyl]-2-oxo-3-pyrrolidinyl]-1-propene-1-sulfonamide (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 811794-86-2
 CMF C25 H26 Cl F2 N5 O3 S2

Absolute stereochemistry.
 Double bond geometry as shown.



CM 2

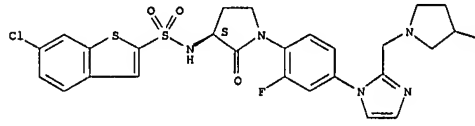
CRN 64-18-6
 CMF C H2 O2

O=CH-OH

RN 811794-88-4 CAPLUS
 CN Benzo[b]thiophene-2-sulfonamide, 6-chloro-N-[(3S)-1-[2-fluoro-4-[[2-[(3-fluoro-1-pyrrolidinyl)methyl]-1H-imidazol-1-yl]phenyl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

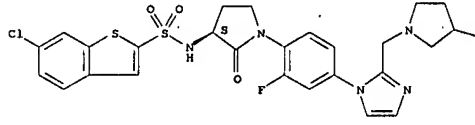


RN 811794-89-5 CAPLUS
 CN Formic acid, compd. with 6-chloro-N-[(3S)-1-[2-fluoro-4-[[2-[(3-fluoro-1-pyrrolidinyl)methyl]-1H-imidazol-1-yl]phenyl]-2-oxo-3-pyrrolidinyl]benzo[b]thiophene-2-sulfonamide (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 811794-88-4
 CMF C26 H24 Cl F2 N5 O3 S2

Absolute stereochemistry.



CM 2

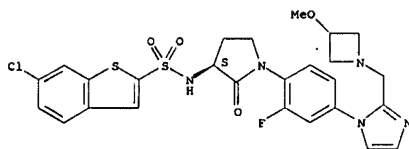
CRN 64-18-6
 CMF C H2 O2

O=CH-OH

RN 811794-90-8 CAPLUS
 CN Benzo[b]thiophene-2-sulfonamide, 6-chloro-N-[(3S)-1-[2-fluoro-4-[[2-[(3-methoxy-1-azetidinyl)methyl]-1H-imidazol-1-yl]phenyl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

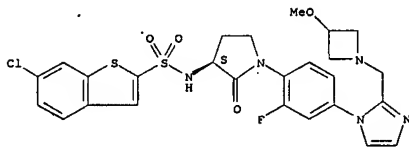


RN 811794-91-9 CAPLUS
 CN Formic acid, compd. with 6-chloro-N-((3S)-1-[2-fluoro-4-{2-[(3-methoxy-1-azetidinyl)methyl]-1H-imidazol-1-yl}phenyl]-2-oxo-3-pyrrolidinyl)benzo[b]thiophene-2-sulfonamide (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 811794-90-8
 CMF C26 H25 Cl F N5 O4 S2

Absolute stereochemistry.



CM 2

CRN 64-18-6
 CMF C H2 O2

O=CH-OH

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:20333 CAPLUS
 DOCUMENT NUMBER: 140:93926
 TITLE: Preparation of sulfonylaminovalerolactams as factor Xa

INVENTOR(S): inhibitors
 Smallheer, Joanne M.; Pinto, Donald J.; Wang, Shuaige;

PATENT ASSIGNEE(S): Qiao, Jennifer X.; Han, Wei; Hu, Zilun
 Bristol-Myers Squibb Company, USA

SOURCE: U.S. Pat. Appl. Publ., 89 pp.

DOCUMENT TYPE: CODEN: USXXCO

LANGUAGE: Patent

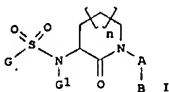
FAMILY ACC. NUM. COUNT: English

PATENT INFORMATION: 1

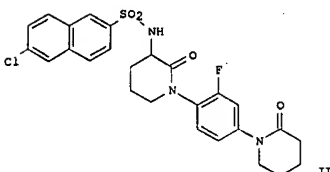
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004006062	A1	20040108	US 2003-429461	20030505
US 7157470	B2	20070102		
WO 2004041776	A2	20040521	WO 2003-US14142	20030505
WO 2004041776	A3	20040910		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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AU 2003301863	A1	20040607	AU 2003-808359	20030505
EP 1501798	A2	20050202	EP 2003-808359	20030505
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US 2006247243	A1	20061102	US 2006-472825	20060621
PRIORITY APPL. INFO.: US 2002-378313P P 20020506				
US 2003-429461 A3 20030505				
WO 2003-US14142 W 20030505				

OTHER SOURCE(S): MARPAT 140:93926
 GI

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



470 n=1



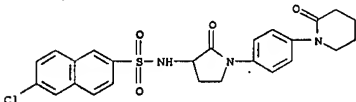
AB The title compds. I (G = Ph, pyridyl, pyrrolyl, etc.; G1 = H, alkyl, acyl, (substituted) amino, etc.; A = (substituted) Ph, carbocyclic, heterocyclic; B = lactam, heterocyclic, etc.; n = 0-2) were prepared I

can be used as inhibitors of trypsin-like serine proteases, specifically factor Xa. Thus, II is prepared from 1-[4-(3-amino-2-oxopiperidin-1-yl)-3-fluorophenyl]-piperidin-2-one (preparation given) and 6-chloronaphthalene-2-sulfonyl chloride. Pharmaceutical compds. containing I are described.

IT 641612-43-3P 641612-44-4P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of sulfonylaminovalerolactams as factor Xa inhibitors)

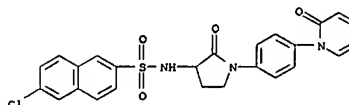
RN 641612-43-3 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-[2-oxo-1-(4-(2-oxo-1-piperidinyl)phenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)



RN 641612-44-4 CAPLUS

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CN 2-Naphthalenesulfonamide, 6-chloro-N-[2-oxo-1-(4-(2-oxo-1-piperidinyl)phenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

Z = Cl ✓

R¹ = ✓

R² = H ✓

X = Ph ✓

Y = ✓

Not sub.
 by -AKNR^cR^d

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2003:511293 CAPLUS

DOCUMENT NUMBER:

139:85238

TITLE:

Preparation of 3-(sulfonylamino)pyrrolidin-2-ones as factor Xa inhibitors

INVENTOR(S):

Borthwick, Alan David; Chan, Chuen; Kelly, Henry

Mason,

Anderson; King, Nigel Paul; Kleanthous, Savvas;

PATENT ASSIGNEE(S):

Glaxo Group Limited, UK

SOURCE:

PCT Int. Appl., 112 pp.

DOCUMENT TYPE:

CODEN: PIXXD2

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003053925	A1	20030703	WO 2002-EPI4826	20021220
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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TW 262075	B	20060921	TW 2002-91136597	20021219
CA 2471461	A1	20030703	CA 2002-2471461	20021220
AU 2002366747	A1	20030709	AU 2002-366747	20021220
EP 1456172	A1	20040915	EP 2002-805350	20021220
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BR 2002015200	A	20041013	BR 2002-15200	20021220
CN 1620434	A	20050525	CN 2002-828224	20021220
JP 2005519885	T	20050707	JP 2003-554642	20021220
HU 200500137	A2	20060228	HU 2005-137	20021220
NZ 533129	A	20061222	NZ 2002-533129	20021220
ZA 2004004147	A	20050621	ZA 2004-4147	20040527
IN 2004DN01467	A	20070209	IN 2004-DN1467	20040528
MX 2004PA06139	A	20041101	MX 2004-PA6139	20040621
NO 2004002990	A	20040920	NO 2004-2990	20040713
US 2005059726	A1	20050317	US 2004-499529	20041101
			US 2001-30705	A 20011221
			WO 2002-EPI4826	W 20021220

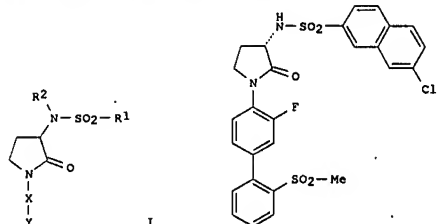
OTHER SOURCE(S):

MARPAT 139:85238

GI

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)



AB Title compds. I [wherein R1 = (un)substituted naphthyl, benzothienyl, benzofuryl, indolyl, phenyl(alkyl), 2,2'-bithiophen-5-yl, thienyl(alkyl), or thieno[3,2-b]thiophenyl; R2 = H, (CH2)nCONRaRb, (CH2)nCO2Rc, morpholinoalkyl, CO2Rc, or carboxyalkyl; X = H, halo, CN, alkyl, alkenyl, CF3, NRaRb, NO2, NRCCHO, NHCORc, NHSO2Rc, alkoxyalkyl, hydroxyalkyl, CORc, CONRaRb, SOO-2Rc, SO2NRaRb, or (un)substituted Ph, heterocyclyl, or heteroaryl; n = 1-3; Ra and Rb = independently H or alkyl, or NRaRb = (un)substituted heterocyclyl; Rc = alkyl; and pharmaceutically acceptable derivs. thereof] were prepared as factor Xa inhibitors. For example, coupling of (3S)-3-amino-1-[3-fluoro-2'-(methylsulfonyl)-1,1'-biphenyl-4-yl]pyrrolidin-2-one with 6-chloro-2-naphthylsulfonyl chloride in the presence of pyridine in DCM gave II. The latter inhibited human factor

Xa in an in vitro fluorogenic assay with Ki <10 nM. Thus, I and compns. comprising I are useful as medicines for the amelioration of clin. conditions for which a Factor Xa inhibitor is indicated (no data).

IT 553650-52-5P, (S)-(E)-2-(5-chlorothien-2-yl)-N-[1-[5-(2-methylsulfonyl)phenyl]pyridin-2-yl]-2-oxopyrrolidin-3-yl]ethanesulfonamide 553650-65-0P 553650-67-2P, (S)-4'-[3-[[[(1E)-2-(5-chlorothien-2-yl)prop-1-enyl]sulfonyl]amino]-2-oxopyrrolidin-1-yl]-3'-fluoro-1,1'-biphenyl-2-sulfonamide 553650-86-5P, (S)-3-cyano-N-[1-[3-fluoro-2'-(methylsulfonyl)-1,1'-biphenyl-4-yl]-2-oxopyrrolidin-3-yl]benzenesulfonamide 553650-91-2P 553651-03-9P 553651-07-3P, (S)-6-chloro-N-[1-[2-fluoro-4-(pyridin-4-yl)phenyl]-2-oxopyrrolidin-3-yl]naphthalene-2-sulfonamide

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(factor Xa inhibitor; preparation of (sulfonylamino)pyrrolidinone

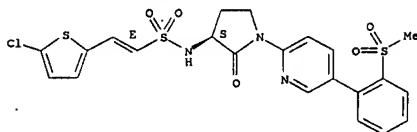
inhibitors starting from homoserines)

RN 553650-52-5 CAPLUS

CN Ethanesulfonamide, 2-(5-chloro-2-thienyl)-N-[(3S)-1-[5-(2-methylsulfonyl)phenyl]-2-pyridinyl]-2-oxo-3-pyrrolidinyl]-, (1E)- (9CI)

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



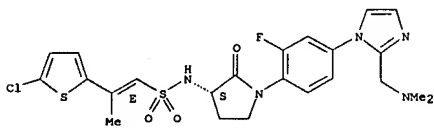
RN 553650-65-0 CAPLUS
CN Formic acid, compd. with (1E)-2-(5-chloro-2-thienyl)-N-[(3S)-1-[4-(2-(dimethylamino)methyl)-1H-imidazol-1-yl]-2-fluorophenyl]-2-oxo-3-pyrrolidinyl]-1-propene-1-sulfonamide (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 553650-64-9

CMF C23 H25 Cl F N5 O3 S2

Absolute stereochemistry.
Double bond geometry as shown.



CM 2

CRN 64-18-6

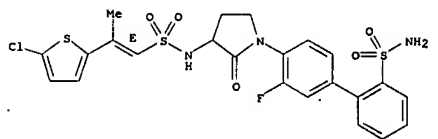
CMF C H2 O2

O=CH-OH

RN 553650-67-2 CAPLUS
CN [1,1'-Biphenyl]-2-sulfonamide, 4'-[3-[[[(1E)-2-(5-chloro-2-thienyl)-1-propenyl]sulfonyl]amino]-2-oxo-1-pyrrolidinyl]-3'-fluoro- (9CI) (CA INDEX NAME)

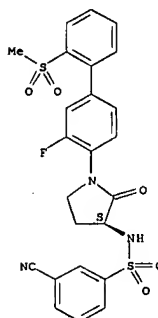
Double bond geometry as shown.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 553650-86-5 CAPLUS
CN Benzenesulfonamide, 3-cyano-N-[(3S)-1-[3-fluoro-2'-(methylsulfonyl)-1,1'-biphenyl-4-yl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



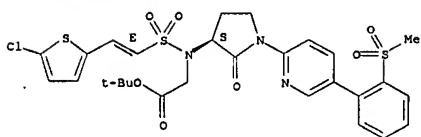
RN 553650-91-2 CAPLUS

CN Glycine,

N-[[[(1E)-2-(5-chloro-2-thienyl)ethenyl]sulfonyl]-N-[(3S)-1-[5-(2-methylsulfonyl)phenyl]-2-pyridinyl]-2-oxo-3-pyrrolidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

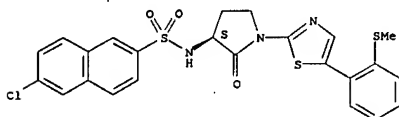
Absolute stereochemistry.
Double bond geometry as shown.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



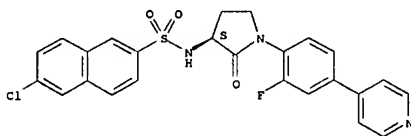
RN 553651-03-9 CAPLUS
CN 2-Naphthalenesulfonamide, 6-chloro-N-[(3S)-1-[5-[2-(methylthio)phenyl]-2-thiazolyl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 553651-07-3 CAPLUS
CN 2-Naphthalenesulfonamide, 6-chloro-N-[(3S)-1-[2-fluoro-4-(4-pyridinyl)phenyl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 553650-48-9P, (S)-6-Chloro-N-[(1-(3-fluoro-2'-(methylsulfonyl)-1,1'-biphenyl-4-yl)-2-oxypropylidene-3-yl)naphthalene-2-sulfonamide 553650-53-6P, (S)-[E]-2-(5-Chlorothiien-2-yl)-N-[(1-(3-fluoro-2'-(methylsulfonyl)-1,1'-biphenyl-4-yl)-2-oxypropylidene-3-yl)ethenesulfonyl]amide 553650-54-7P, (S)-5-Chloro-N-[(1-(3-fluoro-2'-(methylsulfonyl)-1,1'-biphenyl-4-yl)-2-oxypropylidene-3-yl)-1-benzofuran-2-sulfonamide 553650-55-8P, (S)-N-[(1-(3-Fluoro-2'-(methylsulfonyl)-1,1'-biphenyl-4-yl)-2-oxypropylidene-3-yl)-1-benzofuran-2-sulfonamide 553650-56-9P, (8)-(E)-2-(4-Chlorophenyl)-N-[(1-(3-

L4 ANSWER 4 OF 4 - CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

535650-96-7P 535650-97-8P 535650-98-9P
535650-99-0P 535651-00-6P 535651-01-7P
535651-04-0P 535651-05-1P, (S)-3-(Aminomethyl-1)-N-[1-(3-fluoro-2-(methylsulfonyl)-1,1'-biphenyl-4-yl)-2-oxopyrrolidin-3-yl]benzenesulfonamide 535651-06-2P, (S)-4-(Aminomethyl)-N-[1-(3-fluoro-2-(methylsulfonyl)-1,1'-biphenyl-4-yl)-2-oxopyrrolidin-3-yl]benzenesulfonamide 535651-08-4P, (S)-6-Chloro-N-[1-(4-(2,4-dimethoxypyrimidin-5-yl)-2-fluorophenyl)-2-oxopyrrolidin-3-yl]naphthalene-2-sulfonamide 535651-09-5P, (S)-6-Chloro-N-[1-(2-fluoro-4-(pyridin-3-yl)phenyl)-2-oxopyrrolidin-3-yl]naphthalene-2-sulfonamide 535651-10-8P, (S)-6-Chloro-N-[1-(2-fluoro-4-(6-methoxypyridin-3-yl)phenyl)-2-oxopyrrolidin-3-yl]naphthalene-2-sulfonamide 535651-11-9P, (S)-6-Chloro-N-[1-(2-fluoro-4-(4-propylpyridin-3-yl)phenyl)-2-oxopyrrolidin-3-yl]naphthalene-2-sulfonamide 535651-12-0P, (S)-6-Chloro-N-[1-(2-fluoro-4-(6-methylthiopyridin-4-yl)phenyl)-2-oxopyrrolidin-3-yl]naphthalene-2-sulfonamide 535651-13-1P, (S)-N-[1-(4-(5-Bromopyridin-3-yl)-2-fluorophenyl)-2-oxopyrrolidin-3-yl]-6-chloronaphthalene-2-sulfonamide 535651-14-2P, (S)-6-Chloro-N-[1-(2-fluoro-4-(4-methoxypyridin-3-yl)phenyl)-2-oxopyrrolidin-3-yl]naphthalene-2-sulfonamide 535651-15-3P, (S)-6-Chloro-N-[1-(2-fluoro-4-(pyrimidin-5-yl)phenyl)-2-oxopyrrolidin-3-yl]naphthalene-2-sulfonamide 535651-16-4P, (S)-N-[1-(3'-(Aminomethyl)-3-fluoro-1,1'-biphenyl-4-yl)-2-oxopyrrolidin-3-yl]-6-chloronaphthalene-2-sulfonamide 535651-17-5P, (S)-6-Chloro-N-[1-(2-fluoro-4-(3-furyl)phenyl)-2-oxopyrrolidin-3-yl]naphthalene-2-sulfonamide 535651-18-6P, (S)-6-Chloro-N-[1-(2-fluoro-4-(4-methylthien-2-yl)phenyl)-2-oxopyrrolidin-3-yl]naphthalene-2-sulfonamide 535651-19-7P, (S)-6-Chloro-N-[1-(2-fluoro-4-(thien-3-yl)phenyl)-2-oxopyrrolidin-3-yl]naphthalene-2-sulfonamide 535651-20-0P, (S)-6-Chloro-N-[1-(2-fluoro-4-(5-methylthien-2-yl)phenyl)-2-oxopyrrolidin-3-yl]naphthalene-2-sulfonamide 535651-21-1P, (S)-6-Chloro-N-[1-(2-fluoro-4-(4-methylthien-3-yl)phenyl)-2-oxopyrrolidin-3-yl]naphthalene-2-sulfonamide 535651-22-2P, (S)-6-Chloro-N-[1-(2-fluoro-4-(3-formylthien-2-yl)phenyl)-2-oxopyrrolidin-3-yl]naphthalene-2-sulfonamide 535651-23-3P, (S)-6-Chloro-N-[1-(4-(5-chlorothiien-2-yl)-2-fluorophenyl)-2-oxopyrrolidin-3-yl]naphthalene-2-sulfonamide 535651-24-4P, (S)-6-Chloro-N-[1-(4-(3,5-dimethylisoxazol-4-yl)-2-fluorophenyl)-2-oxopyrrolidin-3-yl]naphthalene-2-sulfonamide 535651-25-5P, (S)-6-Chloro-N-[1-(2-fluoro-4-(3-methyl-2-furyl)phenyl)-2-oxopyrrolidin-3-yl]naphthalene-2-sulfonamide 535651-26-6P, (S)-6-Chloro-N-[1-(3-fluoro-1,1'-biphenyl-4-yl)-2-oxopyrrolidin-3-yl]naphthalene-2-sulfonamide 535651-28-8P 535651-29-9P, (S)-6-Chloro-N-[1-(2-fluoro-4-(1-oxidopyrimidin-4-yl)phenyl)-2-oxopyrrolidin-3-yl]naphthalene-2-sulfonamide 535651-30-2P, (S)-6-Chloro-N-[1-(2-fluoro-4-(1-methyl-1H-imidazol-2-yl)phenyl)-2-oxopyrrolidin-3-yl]naphthalene-2-sulfonamide 535651-32-4P, (S)-6-Chloro-N-[1-(1-(2-chloropyridin-3-yl)-2-fluorophenyl)-2-oxopyrrolidin-3-yl]naphthalene-2-sulfonamide 535651-35-7P, (S)-6-Chloro-N-[1-(4-(2-cyanopyridin-3-yl)-2-fluorophenyl)-2-oxopyrrolidin-3-yl]naphthalene-2-sulfonamide 535651-36-8P, (S)-E-N-[1-(4-(3-Chloropyridin-4-yl)-2-fluorophenyl)-2-oxopyrrolidin-3-yl]-2-(5-chlorothiien-2-yl)ethanesulfonamide 535651-37-9P, (S)-6-Chloro-N-[1-(2-fluoro-4-(pyridin-4-yl)phenyl)-2-oxopyrrolidin-3-yl]naphthalene-2-sulfonamide 535651-38-0P, (S)-6-Chloro-N-[1-(4-(3-chloropyridin-2-yl)-2-fluorophenyl)-2-oxopyrrolidin-3-yl]naphthalene-2-sulfonamide 535651-39-1P, (S)-6-Chloro-N-[1-(4-(3-Chloropyridin-4-yl)-2-

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
fluoro-2'- (methylsulfonyl)-1,1'-biphenyl-4-yl]-2-oxopyrrolidin-3-yl]ethanesulfonamide 53650-57-0P, (S)-5'-Chloro-N-[1-[3-fluoro-2'- (methylsulfonyl)-1,1'-biphenyl-4-yl]-2-oxopyrrolidin-3-yl]-2,2'-bithiophene-5-sulfonamide 53650-58-1P, (S)-6-[Dimethylamino]-N-[1-[3-fluoro-2'- (methylsulfonyl)-1,1'-biphenyl-4-yl]-2-oxopyrrolidin-3-yl]naphthalene-2-sulfonamide 53650-59-2P, (S)-N-[1-[3-Fluoro-2'- (methylsulfonyl)-1,1'-biphenyl-4-yl]-2-oxopyrrolidin-3-yl]quinoline-8-sulfonamide 53650-60-5P, (S)-5'-Chloro-N-[1-[3-fluoro-2'- (methylsulfonyl)-1,1'-biphenyl-4-yl]-2-oxopyrrolidin-3-yl]-1'-benzothiophene-2-sulfonamide 53650-61-6P, (S)-5'-Chloro-N-[1-[3-fluoro-2'- (methylsulfonyl)-1,1'-biphenyl-4-yl]-2-oxopyrrolidin-3-yl]-1'-benzothiophene-2-sulfonamide 53650-63-8P 53650-66-1P
, (S)-N-[1-[2'-(Aminosulfonyl)-3-fluoro-1,1'-biphenyl-4-yl]-2-oxopyrrolidin-3-yl]-6-chloro-1-benzothiophene-2-sulfonamide 53650-68-3P, (S)-E-2-[3-Chlorothiien-2-yl]-N-[1-[5-2'-oxopyrrolidin-3-yl]pyridin-2-yl]ethanesulfonamide 53650-69-4P, (S)-E)-2-[3-Chlorothiien-2-yl]-N-[1-[3-fluoro-2'-nitro-1,1'-biphenyl-4-yl]-2-oxopyrrolidin-3-yl]ethanesulfonamide 53650-70-7P 53650-71-8P 53650-72-9P,

(S)-(E)-2-(5-Chlorothien-2-yl)-N-[1-[5-[2-[(methylsulfonyl)amino]phenyl]pyridin-2-yl]-2-oxopyrrolidin-3-yl]ethanesulfonamide 553650-73-0P.

(S)-(-)-N-[1-(5-(2-tert-Butylphenyl)pyridin-2-yl)-2-oxopropylidene-3-yl]-1-(5-chlorothien-2-yl)ethanesulfonamide 533650-74-IP,
(S)-5-Chloro-N-[1-(5-[2-(methylsulfonyl)phenyl]pyridin-2-yl)-2-oxopropylidene-3-yl]-1-benzofuran-2-sulfonamide 533650-75-2P,
(S)-(-)-2-(5-Chlorothien-2-yl)-N-[1-(2-oxo-1-[5-[2-(methylsulfonyl)phenyl]pyridin-2-yl)-2-oxopropylidene-3-yl]ethanesulfonamide 533650-76-3P,
(S)-5-Chloro-N-[1-(5-(2-cyanophenyl)pyridin-2-yl)-2-oxopropylidene-3-yl]ethanesulfonamide 533650-78-5P 533650-79-6P
533650-80-9P 533650-81-0P, (S)-(-)-2-(5-Chlorothien-2-yl)-N-[1-(5-(2-methylsulfonyl)phenyl)pyridin-2-yl]-2-oxopropylidene-3-yl]ethanesulfonamide 533650-82-1P.

(S)-(E)-2-(5-Chlorothien-2-yl)-N-[1-[5-(2-isopropoxyphenyl)pyridin-2-yl]-2-oxopyrrolidin-3-yl]ethanesulfonamide 553650-83-2P.

(S)-6-Chloro-N-[2-oxo-1-(5-phenylpyridin-2-yl)pyrrolidin-3-yl]naphthalene-2-sulfonamide 553560-87-6P, (S)-5-Chloro-N-[1-(2-(methylsulfonyl)phenyl)pyridin-2-yl]pyrrolidin-3-yl]thieno[2,3-b]pyridine-2-sulfonamide 553650-85-4P, (S)-4-Cyano-N-[1-(3-fluoro-2'-(methylsulfonyl)-1,1'-biphenyl-4-yl)-2-oxopyrrolidin-3-yl]benzenesulfonamide 553650-87-6P, (S)-6-Chloro-N-[2-(3-fluoro-

2'-[methylsulfonyl]-1,1'-biphenyl-4-yl]-2-oxopyrrolidin-3-yl]-1-benzofuran-2-sulfonamide 535650-88-7P, (S)-6-Chloro-N-[(1-[3-fluoro-2'-[methylsulfonyl]-1,1'-biphenyl-4-yl]-2-oxopyrrolidin-3-yl]thieno[3,2-b]pyridine)-2-sulfonamide 535650-89-8P, (S)-5-Chloro-N-[(1-[3-fluoro-2'-[methylsulfonyl]-1,1'-biphenyl-4-yl]-1-2-oxopyrrolidin-3-yl]thieno[3,2-b]pyridine)-2-sulfonamide 535650-90-1P, (S)-[1E]-2-(3-chlorothienyl)-1,1'-biphenyl-4-yl]-2-fluoro-1-methylsulfonyl-1,1'-biphenyl-4-yl]-2-oxopyrrolidin-3-yl]prop-1-ene-1-sulfonamide 535650-92-3P 535650-94-5P 535650-95-6P

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

fluorophenyl)-2-oxypyrrrolidin-3-yl]naphthalene-2-sulfonamide
 535651-41-5P, (S)-6-Chloro-N-[1-(2-fluoro-4-(1-methyl-1H-imidazol-4-yl)phenyl)-2-oxypyrrrolidin-3-yl]naphthalene-2-sulfonamide formate
 535651-42-6P, (S)-6-Chloro-N-[1-(2-fluoro-4-(1-methyl-1H-imidazol-5-yl)phenyl)-2-oxypyrrrolidin-3-yl]naphthalene-2-sulfonamide
 535651-43-7P, (S)-2-(5-Chlorothiophen-2-yl)-N-[1-[3-fluoro-2'-

(methylsulfonyl)-1,1'-biphenyl-4-yl]-2-oxopyrrolidin-3-yl]-1-*H*-thiazole-5-sulfonamide 553651-45-9P, (S)-2-Chloro-N-[1-(3-fluoro-2-(methylsulfonyl)-1,1'-biphenyl-4-yl)-2-oxopyrrolidin-3-yl]thiazole-3,2-b]thiophene-2-sulfonamide 553651-46-0P, (S)-2-Chloro-N-[1-(3-fluoro-2-(methylsulfonyl)-1,1'-biphenyl-4-yl)-2-oxopyrrolidin-3-yl]thiazole-3,2-b]thiophene-3-sulfonamide 553651-61-9P
553651-90-2P, (S)-2-Chloro-N-[1-(2-fluoro-4-(methylsulfonyl)phenyl)-2-oxopyrrolidin-3-yl]naphthalene-2-sulfonamide 553651-87-9P, (S)-6-Chloro-N-[1-(2-fluoro-4-(4-methyl-1*H*-imidazol-1-yl)phenyl)-2-oxopyrrolidin-3-yl]-2-naphthalenesulfonamide 553651-88-0P, (S)-6-Chloro-N-[1-(2-fluoro-4-(1*H*-pyrazol-1-yl)phenyl)-2-oxopyrrolidin-3-yl]-2-naphthalenesulfonamide 553651-98-2P, (S)-2-Chloro-N-[1-(2-fluoro-4-(methylsulfonyl)phenyl)-2-oxopyrrolidin-3-yl]pyridine-2-sulfonamide 553652-02-1P, (S)-2-(5-Chloro-1*H*-1,2,4-oxadiazol-7-yl)-N-[1-(4-(2-

[(dimethylamino)methyl]-1H-imidazol-1-yl]-2-fluorophenyl]-2-oxopyrrolidin-3-yl]ethanesulfonamide 553652-04-3P 553652-06-5P
553652-08-7P

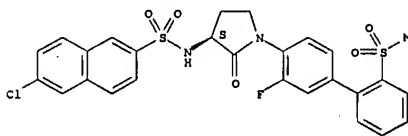
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(factor Xa inhibitor; prepn. of (sulfonylamino)pyrrolidinone factor Xa inhibitors starting from homoserines)

RN 553650-48-9 CAPLUS

2-Naphthalenesulfonamide, 6-chloro-N-[(3S)-1-[3-fluoro-2'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]-2-oxo-3-pyrrolidinyl]- (9CI) (INDEX NAME)

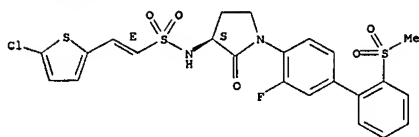
Absolute stereochemistry.



RN 553650-53-6 CAPLUS
CN Ethenesulfonamide, 2-(5-chloro-2-thienyl)-N-[(3S)-1-[3-fluoro-2'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]-2-oxo-3-pyrrolidinyl]-, (1E)- (9CI)
(CA INDEX NAME)

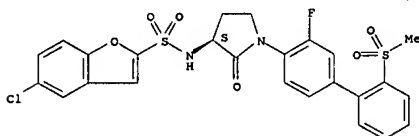
Absolute stereochemistry.
Double bond geometry as shown.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



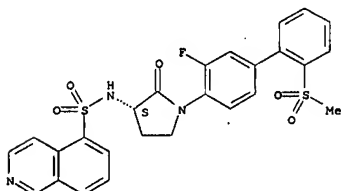
RN 553650-54-7 CAPLUS
 CN 2-Benzofuransulfonamide, 5-chloro-N-[(3S)-1-[3-fluoro-2'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



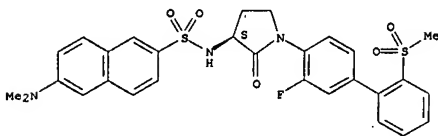
RN 553650-55-8 CAPLUS
 CN 5-Isoquinolinesulfonamide, N-[(3S)-1-[3-fluoro-2'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



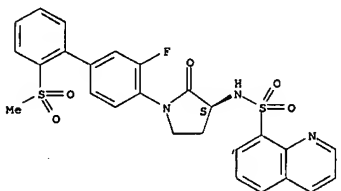
RN 553650-56-9 CAPLUS
 CN Ethenesulfonamide, 2-(4-chlorophenyl)-N-[(3S)-1-[3-fluoro-2'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



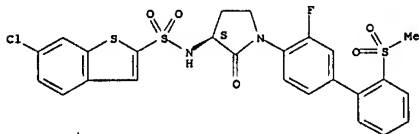
RN 553650-59-2 CAPLUS
 CN 8-Quinolinesulfonamide, N-[(3S)-1-[3-fluoro-2'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 553650-60-5 CAPLUS
 CN Benzo[b]thiophene-2-sulfonamide, 6-chloro-N-[(3S)-1-[3-fluoro-2'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

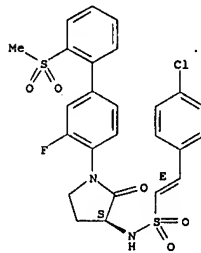


RN 553650-61-6 CAPLUS
 CN Benzo[b]thiophene-2-sulfonamide, 5-chloro-N-[(3S)-1-[3-fluoro-2'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

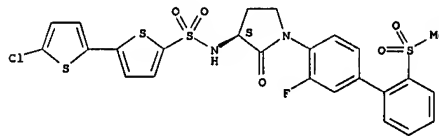
L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 (methylsulfonyl)[1,1'-biphenyl]-4-yl]-2-oxo-3-pyrrolidinyl]-, (1E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



RN 553650-57-0 CAPLUS
 CN [2,2'-Bithiophene]-5-sulfonamide, 5'-chloro-N-[(3S)-1-[3-fluoro-2'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

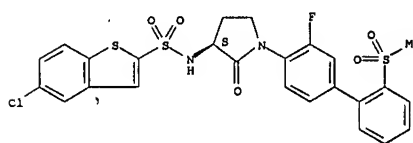
Absolute stereochemistry.



RN 553650-58-1 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-(dimethylamino)-N-[(3S)-1-[3-fluoro-2'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

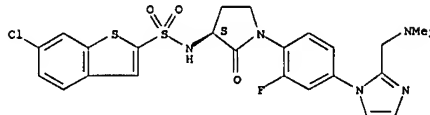


RN 553650-63-8 CAPLUS
 CN Formic acid, compd. with
 6-chloro-N-[(3S)-1-[4-[2-[(dimethylamino)methyl]-1H-imidazol-1-yl]-2-fluorophenyl]-2-oxo-3-pyrrolidinyl]benzo[b]thiophene-2-sulfonamide (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 553650-62-7
 CMF C24 H23 Cl F N5 O3 S2

Absolute stereochemistry.



CM 2

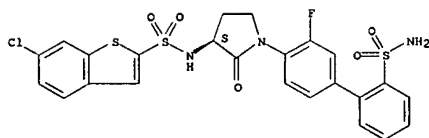
CRN 64-18-6
 CMF C H2 O2

O=CH-OH

RN 553650-66-1 CAPLUS
 CN Benzo[b]thiophene-2-sulfonamide, N-[(3S)-1-[2'-(aminosulfonyl)-3-fluoro[1,1'-biphenyl]-4-yl]-2-oxo-3-pyrrolidinyl]-6-chloro- (9CI) (CA INDEX NAME)

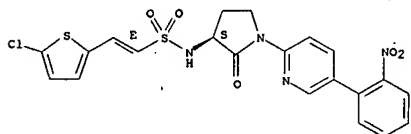
Absolute stereochemistry.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



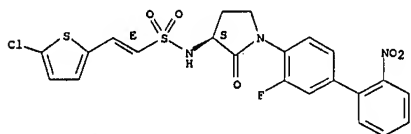
RN 553650-68-3 CAPLUS
 CN Ethenesulfonamide, 2-(5-chloro-2-thienyl)-N-[(3S)-1-[5-(2-nitrophenyl)-2-pyridinyl]-2-oxo-3-pyrrolidinyl]-, (1E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



RN 553650-69-4 CAPLUS
 CN Ethenesulfonamide, 2-(5-chloro-2-thienyl)-N-[(3S)-1-[3-fluoro-2'-nitro[1,1'-biphenyl]-4-yl]-2-oxo-3-pyrrolidinyl]-, (1E)- (9CI) (CA INDEX NAME)

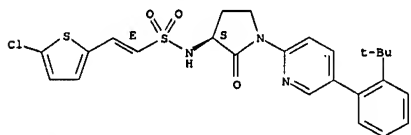
Absolute stereochemistry.
 Double bond geometry as shown.



RN 553650-70-7 CAPLUS
 CN [1,1'-Biphenyl]-2-sulfonamide, 4'-[(3S)-3-[[[(1E)-2-(5-chloro-2-thienyl)ethenyl]sulfonyl]amino]-2-oxo-1-pyrrolidinyl]-3'-fluoro-N-methyl- (9CI) (CA INDEX NAME)

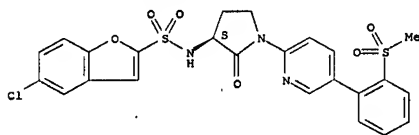
L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 dimethylethylphenyl]-2-pyridinyl]-2-oxo-3-pyrrolidinyl]-, (1E)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



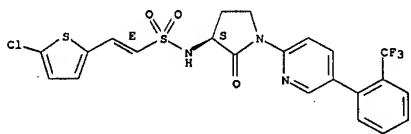
RN 553650-74-1 CAPLUS
 CN 2-Benzofuransulfonamide, 5-chloro-N-[(3S)-1-[5-[2-(methylsulfonyl)phenyl]-2-pyridinyl]-2-oxo-3-pyrrolidinyl]-, (9CI) (CA INDEX NAME)

Absolute stereochemistry.



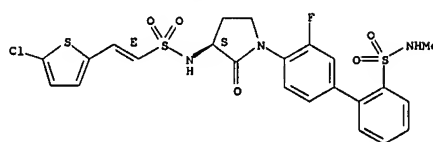
RN 553650-75-2 CAPLUS
 CN Ethenesulfonamide, 2-[6-[(3S)-3-[[[(1E)-2-(5-chloro-2-thienyl)ethenyl]sulfonyl]amino]-2-oxo-1-pyrrolidinyl]-3-pyridinyl]-N,N-dimethyl-, (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



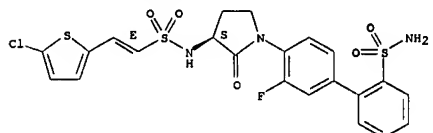
RN 553650-76-3 CAPLUS
 CN Benzamide, 2-[6-[(3S)-3-[[[(1E)-2-(5-chloro-2-thienyl)ethenyl]sulfonyl]amino]-2-oxo-1-pyrrolidinyl]-3-pyridinyl]-N,N-dimethyl-, (9CI) (CA INDEX NAME)

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 Absolute stereochemistry.
 Double bond geometry as shown.



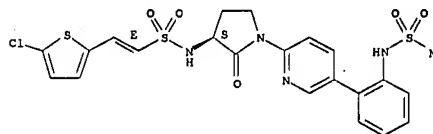
RN 553650-71-8 CAPLUS
 CN [1,1'-Biphenyl]-2-sulfonamide, 4'-[(3S)-3-[[[(1E)-2-(5-chloro-2-thienyl)ethenyl]sulfonyl]amino]-2-oxo-1-pyrrolidinyl]-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



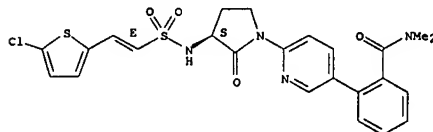
RN 553650-72-9 CAPLUS
 CN Ethenesulfonamide, 2-(5-chloro-2-thienyl)-N-[(3S)-1-[5-[2-(methylsulfonyl)amino]phenyl]-2-pyridinyl]-2-oxo-3-pyrrolidinyl]-, (1E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



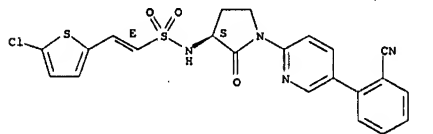
RN 553650-73-0 CAPLUS
 CN Ethenesulfonamide, 2-(5-chloro-2-thienyl)-N-[(3S)-1-[5-[2-(1,1-

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 Absolute stereochemistry.
 Double bond geometry as shown.



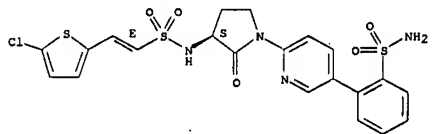
RN 553650-77-4 CAPLUS
 CN Ethenesulfonamide, 2-(5-chloro-2-thienyl)-N-[(3S)-1-[5-(2-cyanophenyl)-2-pyridinyl]-2-oxo-3-pyrrolidinyl]-, (1E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



RN 553650-78-5 CAPLUS
 CN Benzenesulfonamide, 2-[6-[(3S)-3-[[[(1E)-2-(5-chloro-2-thienyl)ethenyl]sulfonyl]amino]-2-oxo-1-pyrrolidinyl]-3-pyridinyl]-N,N-dimethyl-, (9CI) (CA INDEX NAME)

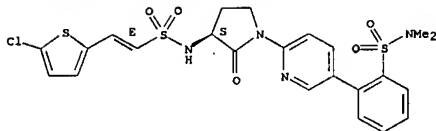
Absolute stereochemistry.
 Double bond geometry as shown.



RN 553650-79-6 CAPLUS
 CN Benzenesulfonamide, 2-[6-[(3S)-3-[[[(1E)-2-(5-chloro-2-thienyl)ethenyl]sulfonyl]amino]-2-oxo-1-pyrrolidinyl]-3-pyridinyl]-N,N-dimethyl-, (9CI) (CA INDEX NAME)

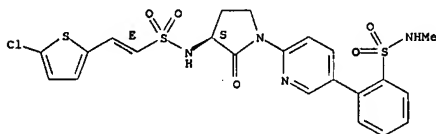
Absolute stereochemistry.
 Double bond geometry as shown.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



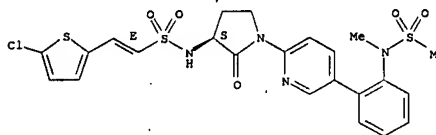
RN 553650-80-9 CAPLUS
 CN Benzenesulfonamide, 2-[6-[(3S)-3-[[[(1E)-2-(5-chloro-2-thienyl)ethenyl)sulfonyl]amino]-2-oxo-1-pyrrolidinyl]-3-pyridinyl]-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



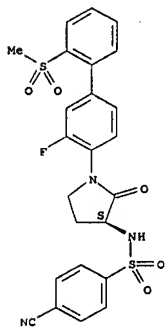
RN 553650-81-0 CAPLUS
 CN Ethenesulfonamide, 2-(5-chloro-2-thienyl)-N-[(3S)-1-[5-[2-(methyl(methylsulfonyl)amino)phenyl]-2-pyridinyl]-2-oxo-3-pyrrolidinyl]-, (1E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



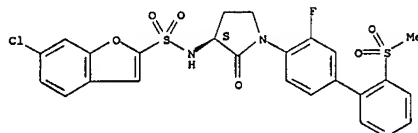
RN 553650-82-1 CAPLUS
 CN Ethenesulfonamide, 2-(5-chloro-2-thienyl)-N-[(3S)-1-[5-[2-(1-methylethoxy)phenyl]-2-pyridinyl]-2-oxo-3-pyrrolidinyl]-, (1E)- (9CI) (CA INDEX NAME)

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 553650-87-6 CAPLUS
 CN 2-Benzofuransulfonamide, 6-chloro-N-[(3S)-1-[3-fluoro-2'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

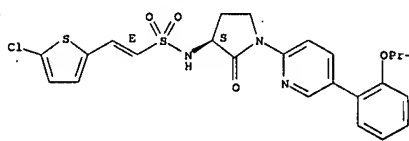
Absolute stereochemistry.



RN 553650-88-7 CAPLUS
 CN Thieno[3,2-b]pyridine-2-sulfonamide, 6-chloro-N-[(3S)-1-[3-fluoro-2'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

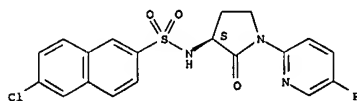
Absolute stereochemistry.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 Absolute stereochemistry.
 Double bond geometry as shown.



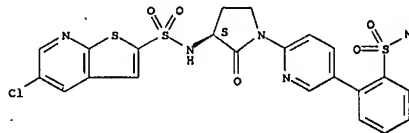
RN 553650-83-2 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-[(3S)-2-oxo-1-(5-phenyl-2-pyridinyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 553650-84-3 CAPLUS
 CN Thieno[2,3-b]pyridine-2-sulfonamide, 5-chloro-N-[(3S)-1-[5-[2-(methylsulfonyl)phenyl]-2-pyridinyl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

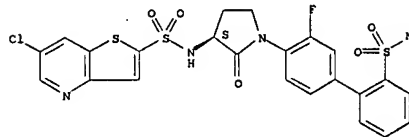
Absolute stereochemistry.



RN 553650-85-4 CAPLUS
 CN Benzenesulfonamide, 4-cyano-N-[(3S)-1-[3-fluoro-2'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

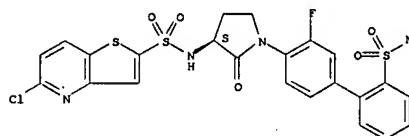
Absolute stereochemistry.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



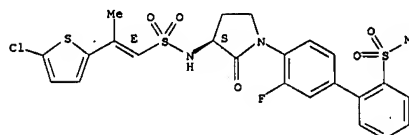
RN 553650-89-8 CAPLUS
 CN Thieno[3,2-b]pyridine-2-sulfonamide, 5-chloro-N-[(3S)-1-[3-fluoro-2'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 553650-90-1 CAPLUS
 CN 1-Propene-1-sulfonamide, 2-(5-chloro-2-thienyl)-N-[(3S)-1-[3-fluoro-2'-(methylsulfonyl)[1,1'-biphenyl]-4-yl]-2-oxo-3-pyrrolidinyl]-, (1E)- (9CI) (CA INDEX NAME)

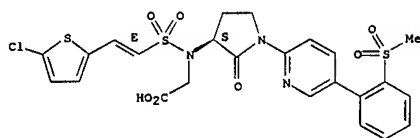
Absolute stereochemistry.
 Double bond geometry as shown.



RN 553650-92-3 CAPLUS
 CN Glycine, N-[[[(1E)-2-(5-chloro-2-thienyl)ethenyl)sulfonyl]-N-[(3S)-1-[5-[2-(methylsulfonyl)phenyl]-2-pyridinyl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
Double bond geometry as shown.

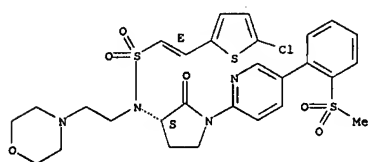


RN 553650-94-5 CAPLUS
CN Formic acid, compd. with (1E)-2-(5-chloro-2-thienyl)-N-[(3S)-1-[5-[2-(methylsulfonyl)phenyl]-2-pyridinyl]-2-oxo-3-pyrrolidinyl]-N-[2-(4-morpholinyl)ethyl]ethanesulfonamide (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 553650-93-4
CMF C28 H31 Cl N4 O6 S3

Absolute stereochemistry.
Double bond geometry as shown.



CM 2

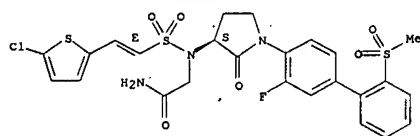
CRN 64-18-6
CMF C H2 O2

O=CH-OH

RN 553650-95-6 CAPLUS
CN Acetamide, 2-[[[(1E)-2-(5-chloro-2-thienyl)ethenyl]sulfonyl][(3S)-1-[3-[2-(methylsulfonyl)phenyl]-2-pyridinyl]-2-oxo-3-pyrrolidinyl]amino]- (9CI) (CA INDEX NAME)

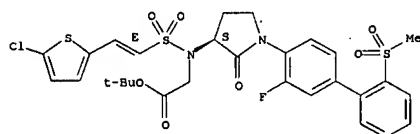
L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN Acetamide, 2-[[[(1E)-2-(5-chloro-2-thienyl)ethenyl]sulfonyl][(3S)-1-[3-[2-(methylsulfonyl)phenyl]-2-pyridinyl]-2-oxo-3-pyrrolidinyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



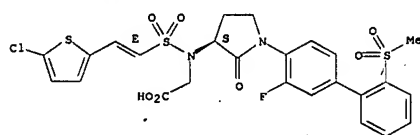
RN 553650-99-0 CAPLUS
CN Glycine, N-[[[(1E)-2-(5-chloro-2-thienyl)ethenyl]sulfonyl]-N-[(3S)-1-[3-[2-(methylsulfonyl)phenyl]-2-pyridinyl]-2-oxo-3-pyrrolidinyl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



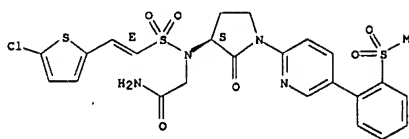
RN 553651-00-6 CAPLUS
CN Glycine, N-[[[(1E)-2-(5-chloro-2-thienyl)ethenyl]sulfonyl]-N-[(3S)-1-[3-[2-(methylsulfonyl)phenyl]-2-pyridinyl]-2-oxo-3-pyrrolidinyl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



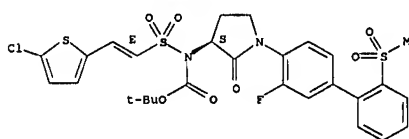
RN 553651-01-7 CAPLUS
CN [1,1'-Biphenyl]-3-carboxamide, 4'-[(3S)-3-[[[6-chloro-2-naphthalenyl]sulfonyl]amino]-2-oxo-1-pyrrolidinyl]-3'-fluoro- (9CI) (CA INDEX NAME)

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
Absolute stereochemistry.
Double bond geometry as shown.



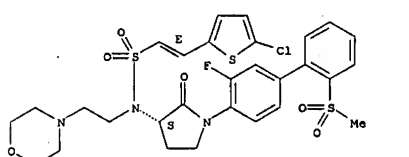
RN 553650-96-7 CAPLUS
CN Carbamic acid, [[[(1E)-2-(5-chloro-2-thienyl)ethenyl]sulfonyl][(3S)-1-[3-[2-(methylsulfonyl)phenyl]-2-pyridinyl]-2-oxo-3-pyrrolidinyl]-N-[2-(4-morpholinyl)ethyl]ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



RN 553650-97-8 CAPLUS
CN Ethanesulfonamide, 2-(5-chloro-2-thienyl)-N-[(3S)-1-[3-[2-(methylsulfonyl)phenyl]-2-pyridinyl]-2-oxo-3-pyrrolidinyl]-N-[2-(4-morpholinyl)ethyl]-, (1E)- (9CI) (CA INDEX NAME)

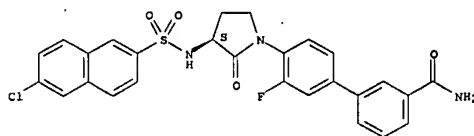
Absolute stereochemistry.
Double bond geometry as shown.



RN 553650-98-9 CAPLUS

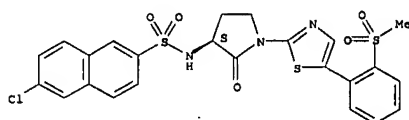
L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
INDEX NAME)

Absolute stereochemistry.



RN 553651-04-0 CAPLUS
CN 2-Naphthalenesulfonamide, 6-chloro-N-[[[(1E)-2-(5-chloro-2-thienyl)ethenyl]sulfonyl]-N-[(3S)-1-[3-[2-(methylsulfonyl)phenyl]-2-pyridinyl]-2-oxo-3-pyrrolidinyl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

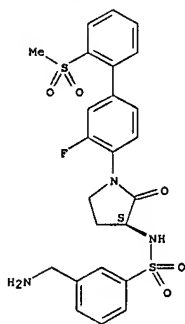
Absolute stereochemistry.



RN 553651-05-1 CAPLUS
CN Benzenesulfonamide, 3-(aminomethyl)-N-[(3S)-1-[3-[2-(methylsulfonyl)phenyl]-2-pyridinyl]-2-oxo-3-pyrrolidinyl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

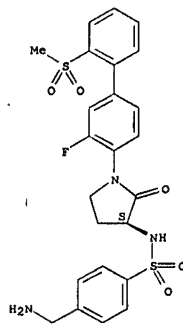
L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 553651-06-2 CAPLUS
 CN Benzenesulfonamide, 4-(aminomethyl)-N-({(3S)-1-[3-fluoro-2'-(methylsulfonyl)]-1,1'-biphenyl-4-yl}-2-oxo-3-pyrrolidinyl)- (9CI) (CA INDEX NAME)

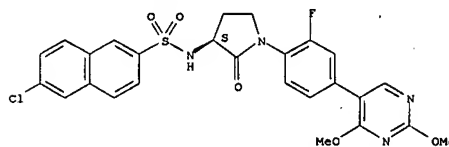
Absolute stereochemistry.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 553651-08-4 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-({(3S)-1-[4-(2,4-dimethoxy-5-pyrimidinyl)-2-fluorophenyl]-2-oxo-3-pyrrolidinyl}- (9CI) (CA INDEX NAME)

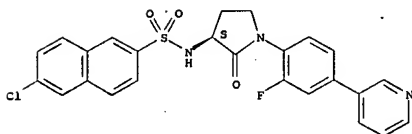
Absolute stereochemistry.



RN 553651-09-5 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-({(3S)-1-[2-fluoro-4-(3-pyridinyl)phenyl]-2-oxo-3-pyrrolidinyl}- (9CI) (CA INDEX NAME)

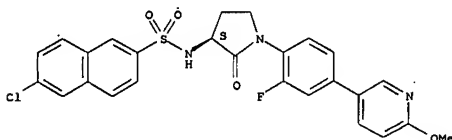
Absolute stereochemistry.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



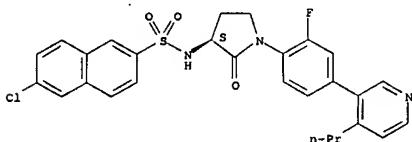
RN 553651-10-8 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-({(3S)-1-[2-fluoro-4-(6-methoxy-3-pyridinyl)phenyl]-2-oxo-3-pyrrolidinyl}- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 553651-11-9 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-({(3S)-1-[2-fluoro-4-(4-propyl-3-pyridinyl)phenyl]-2-oxo-3-pyrrolidinyl}- (9CI) (CA INDEX NAME)

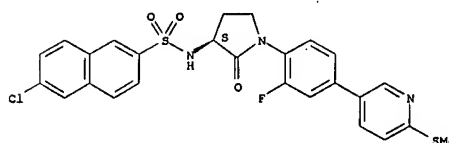
Absolute stereochemistry.



RN 553651-12-0 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-({(3S)-1-[2-fluoro-4-(6-(methylthio)-3-pyridinyl)phenyl]-2-oxo-3-pyrrolidinyl}- (9CI) (CA INDEX NAME)

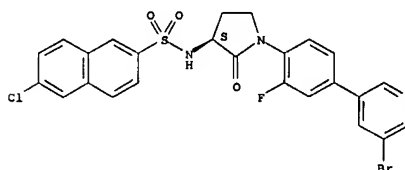
Absolute stereochemistry.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



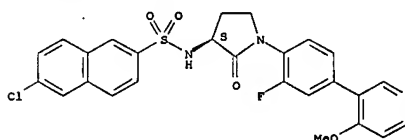
RN 553651-13-1 CAPLUS
 CN 2-Naphthalenesulfonamide, N-({(3S)-1-[4-(5-bromo-3-pyridinyl)-2-fluorophenyl]-2-oxo-3-pyrrolidinyl}- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 553651-14-2 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-({(3S)-1-[2-fluoro-4-(4-methoxy-3-pyridinyl)phenyl]-2-oxo-3-pyrrolidinyl}- (9CI) (CA INDEX NAME)

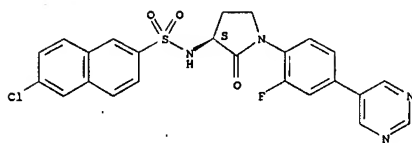
Absolute stereochemistry.



RN 553651-15-3 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-({(3S)-1-[2-fluoro-4-(5-pyrimidinyl)phenyl]-2-oxo-3-pyrrolidinyl}- (9CI) (CA INDEX NAME)

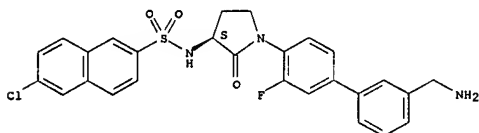
Absolute stereochemistry.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



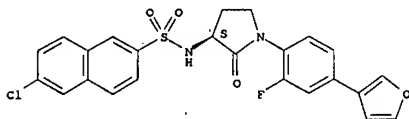
RN 553651-16-4 CAPLUS
 CN 2-Naphthalenesulfonamide, N-[(3S)-1-[3'-(aminomethyl)-3-fluoro[1,1'-biphenyl]-4-yl]-2-oxo-3-pyrrolidinyl]-6-chloro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 553651-17-5 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-[(3S)-1-[2-fluoro-4-(3-furanyl)phenyl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

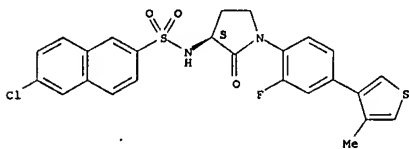
Absolute stereochemistry.



RN 553651-18-6 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-[(3S)-1-[2-fluoro-4-(4-methyl-2-thienyl)phenyl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

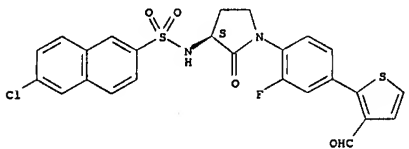
Absolute stereochemistry.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



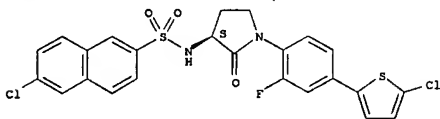
RN 553651-22-2 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-[(3S)-1-[2-fluoro-4-(3-formyl-2-thienyl)phenyl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 553651-23-3 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-[(3S)-1-[4-(5-chloro-2-thienyl)-2-fluorophenyl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

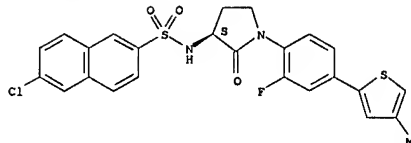
Absolute stereochemistry.



RN 553651-24-4 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-[(3S)-1-[4-(3,5-dimethyl-4-isoxazolyl)-2-fluorophenyl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

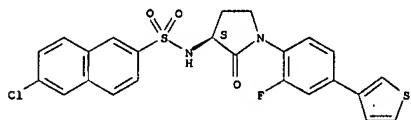
Absolute stereochemistry.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



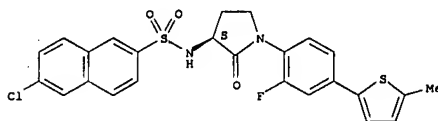
RN 553651-19-7 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-[(3S)-1-[2-fluoro-4-(3-thienyl)phenyl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 553651-20-0 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-[(3S)-1-[2-fluoro-4-(5-methyl-2-thienyl)phenyl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

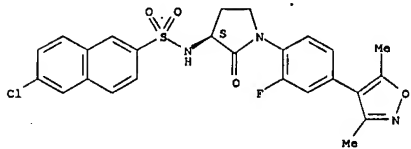
Absolute stereochemistry.



RN 553651-21-1 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-[(3S)-1-[2-fluoro-4-(4-methyl-3-thienyl)phenyl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

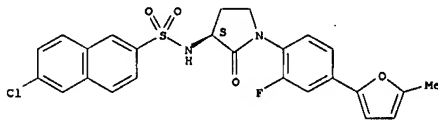
Absolute stereochemistry.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



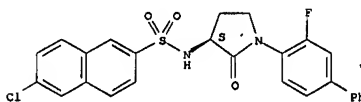
RN 553651-25-5 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-[(3S)-1-[2-fluoro-4-(5-methyl-2-furanyl)phenyl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 553651-26-6 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-[(3S)-1-[3-fluoro[1,1'-biphenyl]-4-yl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



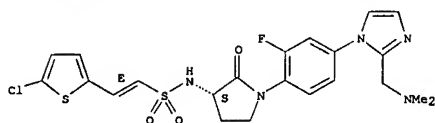
RN 553651-28-8 CAPLUS
 CN Ethenesulfonamide, 2-(5-chloro-2-thienyl)-N-[(3S)-1-[4-[2-(dimethylamino)methyl]-1H-imidazol-1-yl]-2-fluorophenyl]-2-oxo-3-pyrrolidinyl-, (1E)-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 553651-27-7
 CMF C22 H23 Cl F N5 O3 S2

Absolute stereochemistry.
 Double bond geometry as shown.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

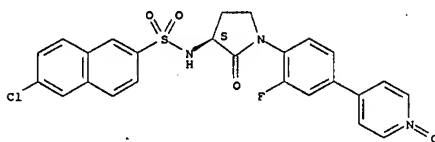


CM 2
 CRN 76-05-1
 CMF C2 H F3 O2



RN 553651-29-9 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-[(3S)-1-[2-fluoro-4-(1-oxido-4-pyridinyl)phenyl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

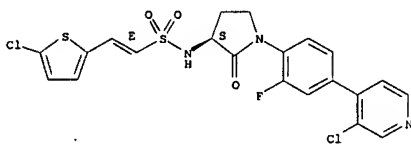
Absolute stereochemistry.



RN 553651-30-2 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-[(3S)-1-[2-fluoro-4-(1-methyl-1H-imidazol-2-yl)phenyl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

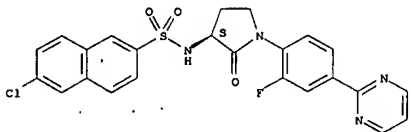
Absolute stereochemistry.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



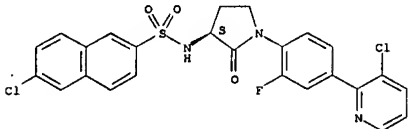
RN 553651-37-9 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-[(3S)-1-[2-fluoro-4-(2-pyrimidinyl)phenyl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 553651-38-0 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-[(3S)-1-[4-(3-chloro-2-pyridinyl)-2-fluorophenyl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

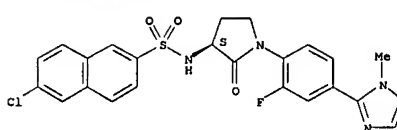
Absolute stereochemistry.



RN 553651-39-1 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-[(3S)-1-[4-(3-chloro-4-pyridinyl)-2-fluorophenyl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

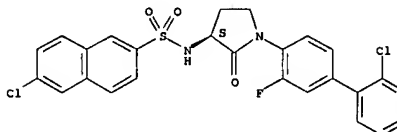
Absolute stereochemistry.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



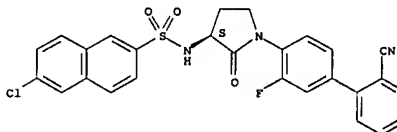
RN 553651-32-4 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-[(3S)-1-[4-(2-chloro-3-pyridinyl)-2-fluorophenyl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 553651-35-7 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-[(3S)-1-[4-(2-cyano-3-pyridinyl)-2-fluorophenyl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

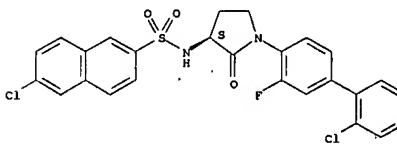
Absolute stereochemistry.



RN 553651-36-8 CAPLUS
 CN Ethenesulfonamide, N-[(3S)-1-[4-(3-chloro-4-pyridinyl)-2-fluorophenyl]-2-oxo-3-pyrrolidinyl]-2-(5-chloro-2-thienyl)-, (1E)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

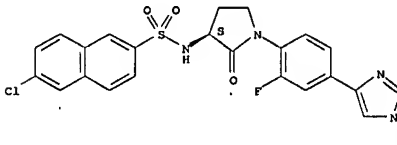


RN 553651-41-5 CAPLUS
 CN Formic acid, compd. with 6-chloro-N-[(3S)-1-[2-fluoro-4-(1-methyl-1H-imidazol-4-yl)phenyl]-2-oxo-3-pyrrolidinyl]-2-naphthalenesulfonamide (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 553651-40-4
 CMF C24 H20 Cl1 F N4 O3 S

Absolute stereochemistry.



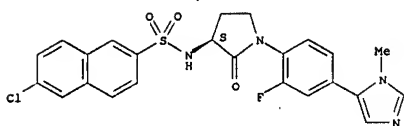
CM 2
 CRN 64-18-6
 CMF C H2 O2

O=CH-OH

RN 553651-42-6 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-[(3S)-1-[2-fluoro-4-(1-methyl-1H-imidazol-5-yl)phenyl]-2-oxo-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

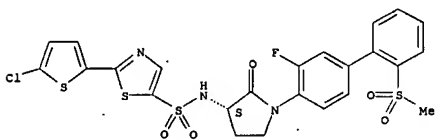
Absolute stereochemistry.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



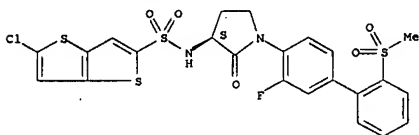
RN 553651-43-7 CAPLUS
 CN 5-Thiazolesulfonamide, 2-(5-chloro-2-thienyl)-N-((3S)-1-(3-fluoro-2'-(methylsulfonyl)[1,1'-biphenyl]-4-yl)-2-oxo-3-pyrrolidinyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 553651-45-9 CAPLUS
 CN Thieno[3,2-b]thiophene-2-sulfonamide, 5-chloro-N-((3S)-1-(3-fluoro-2'-(methylsulfonyl)[1,1'-biphenyl]-4-yl)-2-oxo-3-pyrrolidinyl)- (9CI) (CA INDEX NAME)

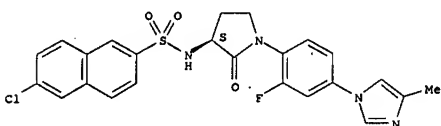
Absolute stereochemistry.



RN 553651-46-0 CAPLUS
 CN Thieno[3,2-b]thiophene-3-sulfonamide, 2-chloro-N-((3S)-1-(3-fluoro-2'-(methylsulfonyl)[1,1'-biphenyl]-4-yl)-2-oxo-3-pyrrolidinyl)- (9CI) (CA INDEX NAME)

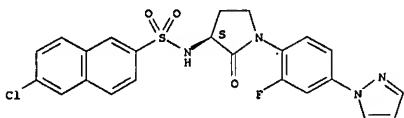
Absolute stereochemistry.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



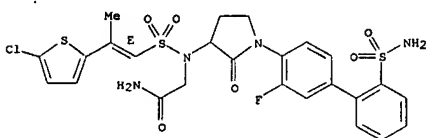
RN 553651-88-0 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-((3S)-1-(2-fluoro-4-(1H-pyrazol-1-yl)phenyl)-2-oxo-3-pyrrolidinyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 553651-98-2 CAPLUS
 CN Acetamide, 2-[[1-(2'-(aminosulfonyl)-3-fluoro[1,1'-biphenyl]-4-yl)-2-oxo-3-pyrrolidinyl][[(1E)-2-(5-chloro-2-thienyl)-1-propenyl]sulfonyl]amino]- (9CI) (CA INDEX NAME)

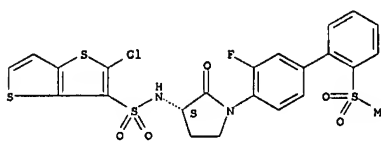
Double bond geometry as shown.



RN 553651-99-3 CAPLUS
 CN Acetamide, 2-[[1-(2'-(aminosulfonyl)-3-fluoro[1,1'-biphenyl]-4-yl)-2-oxo-3-pyrrolidinyl][[(1E)-2-(5-chloro-2-thienyl)-1-propenyl]sulfonyl]amino]- (9CI) (CA INDEX NAME)

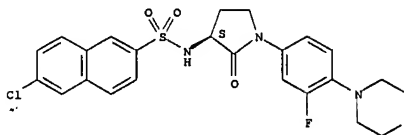
Double bond geometry as shown.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



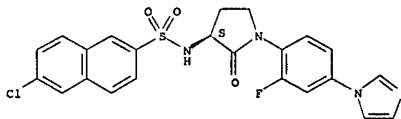
RN 553651-61-9 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-((3S)-1-(3-fluoro-4-(4-morpholinyl)phenyl)-2-oxo-3-pyrrolidinyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 553651-80-2 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-((3S)-1-(2-fluoro-4-(1H-imidazol-1-yl)phenyl)-2-oxo-3-pyrrolidinyl)- (9CI) (CA INDEX NAME)

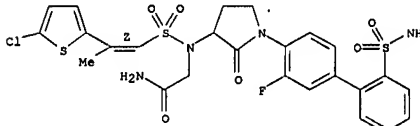
Absolute stereochemistry.



RN 553651-87-9 CAPLUS
 CN 2-Naphthalenesulfonamide, 6-chloro-N-((3S)-1-(2-fluoro-4-(4-methyl-1H-imidazol-1-yl)phenyl)-2-oxo-3-pyrrolidinyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



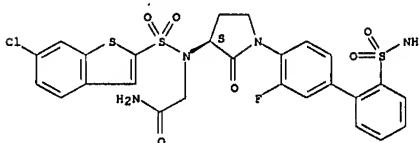
RN 553652-01-0 CAPLUS
 CN Formic acid, compd. with 2-[[[(3S)-1-(2'-(aminosulfonyl)-3-fluoro[1,1'-biphenyl]-4-yl)-2-oxo-3-pyrrolidinyl][(6-chlorobenzo[b]thien-2-yl)sulfonyl]amino]acetamide (1:1) (9CI) (CA INDEX NAME)

CH 1

CRN 553652-00-9

CMF C26 H22 Cl F N4 O6 S3

Absolute stereochemistry.



CH 2

CRN 64-18-6

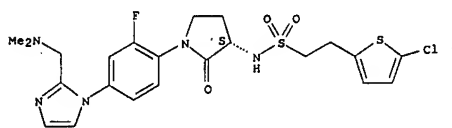
CMF C H2 O2

O=CH-OH

RN 553652-02-1 CAPLUS
 CN 2-Thiopheneethanesulfonamide, 5-chloro-N-((3S)-1-[4-2-[[dimethylamino)methyl]-1H-imidazol-1-yl]-2-fluorophenyl]-2-oxo-3-pyrrolidinyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



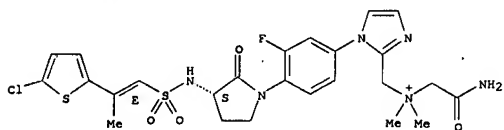
RN 553652-04-3 CAPLUS

CN 1H-Imidazole-2-methanaminium,
N-(2-amino-2-oxoethyl)-1-[4-((3S)-3-(((1E)-2-(5-chloro-2-thienyl)-1-propenyl)sulfonyl]amino]-2-oxo-1-pyrrolidinyl]-3-
fluorophenyl]-N,N-dimethyl-, formate (9CI) (CA INDEX NAME)

CM 1

CRN 553652-03-2

CMF C25 H29 Cl F N6 O4 S2

Absolute stereochemistry.
Double bond geometry as shown.

CM 2

CRN 71-47-6

CMF C H O2

O=CH-O-

RN 553652-06-5 CAPLUS

CN 1H-Imidazole-2-methanaminium,
N-(2-amino-2-oxoethyl)-1-[4-((3S)-3-(((2-(5-
chloro-2-thienyl)ethyl)sulfonyl)amino)-2-oxo-1-pyrrolidinyl]-3-
fluorophenyl]-N,N-dimethyl-, formate (9CI) (CA INDEX NAME)

CM 1

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

O=CH-O-

REFERENCE COUNT:

2

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE

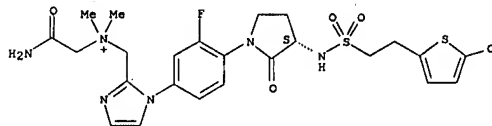
FORMAT

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CRN 553652-05-4

CMF C24 H29 Cl F N6 O4 S2

Absolute stereochemistry.



CM 2

CRN 71-47-6

CMF C H O2

O=CH-O-

RN 553652-08-7 CAPLUS

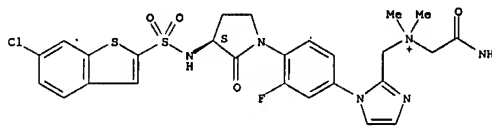
CN 1H-Imidazole-2-methanaminium, N-(2-amino-2-oxoethyl)-1-[4-((3S)-3-(((6-
chlorobenzo[b]thien-2-yl)sulfonyl)amino)-2-oxo-1-pyrrolidinyl]-3-
fluorophenyl]-N,N-dimethyl-, formate (9CI) (CA INDEX NAME)

CM 1

CRN 553652-07-6

CMF C26 H27 Cl F N6 O4 S2

Absolute stereochemistry.



CM 2

CRN 71-47-6

CMF C H O2